

FIG. 1

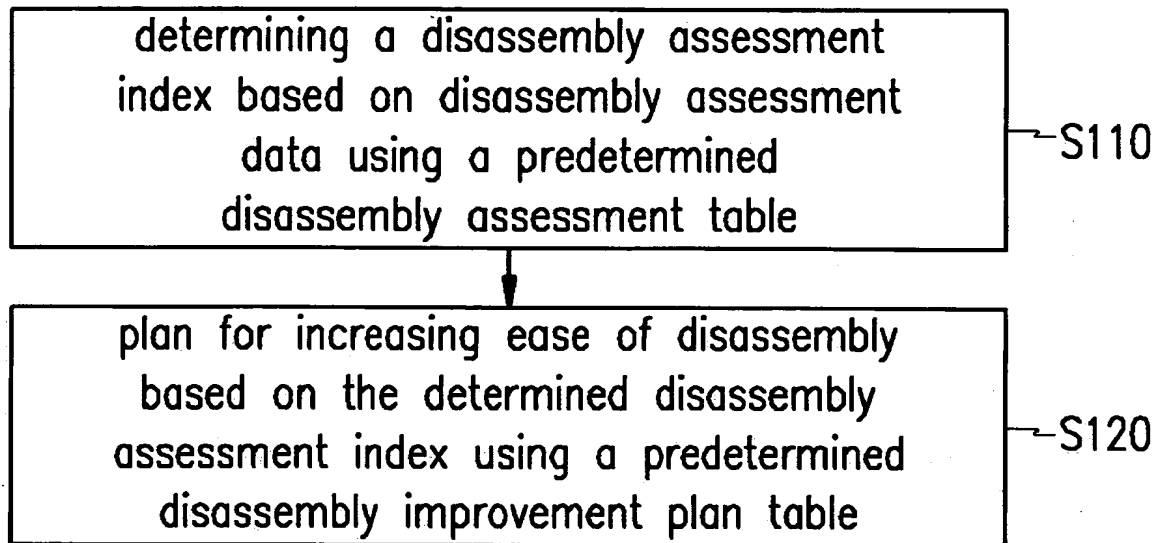


FIG. 2

checklist for structure disassembly assessment data (disassembly of vehicle)				
process number			component and structure name	score
accessibility	approaching space size		<input type="checkbox"/> free approach , <input type="checkbox"/> partially restricted approach , <input type="checkbox"/> difficult approach	
	approaching route visibility		<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
	Self location		<input type="checkbox"/> yes <input type="checkbox"/> no	
	approaching direction change number		<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2	
disassembly force transmissibility	bolt	visibility	<input type="checkbox"/> high <input type="checkbox"/> low	
		working space size	<input type="checkbox"/> free working <input type="checkbox"/> restricted working	
		disassembling force	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
		holding ease	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
	bonding	visibility	<input type="checkbox"/> high <input type="checkbox"/> low	
		working space size	<input type="checkbox"/> free working <input type="checkbox"/> restricted working	
		disassembling force	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
		holding ease	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
	fastening	visibility	<input type="checkbox"/> high <input type="checkbox"/> low	
		working space size	<input type="checkbox"/> free working <input type="checkbox"/> restricted working	
		disassembling force	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
		holding ease	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
	Snap-fit	visibility	<input type="checkbox"/> high <input type="checkbox"/> low	
		working space size	<input type="checkbox"/> free working <input type="checkbox"/> restricted working	
		disassembling force	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
		holding ease	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
	welding	visibility	<input type="checkbox"/> high <input type="checkbox"/> low	
		working space size	<input type="checkbox"/> free working <input type="checkbox"/> restricted working	
		disassembling force	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
		holding ease	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
	fitting	visibility	<input type="checkbox"/> high <input type="checkbox"/> low	
		working space size	<input type="checkbox"/> free working <input type="checkbox"/> restricted working	
		disassembling force	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
		holding ease	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
Disassembly structural attribute	component structure	pre-disjoint component number	<input type="checkbox"/> less than average <input type="checkbox"/> average <input type="checkbox"/> more than average	
		disposition data	<input type="checkbox"/> direct disassembly structure <input type="checkbox"/> complex disassembly structure <input type="checkbox"/> sequential disassembly structure	
	coupling structure	coupling element number	<input type="checkbox"/> 1 <input type="checkbox"/> 2-3 <input type="checkbox"/> more than 3	
		connected component number	<input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> less than 3	
		coupling point number	<input type="checkbox"/> less than 4 <input type="checkbox"/> 5-6 <input type="checkbox"/> more than 6	

FIG. 3

checklist for component disassembly assessment data (disassembly of structure)				
process number		component and structure name		score
accessibility	disposition state		<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
	need of state maintenance		<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
	coupling portion exposure		<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
	approaching direction change number		<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2	
disassembling force transmissibility	bolt	fixing state	<input type="checkbox"/> no fixing <input type="checkbox"/> temporary fixing <input type="checkbox"/> continual fixing	
		working space size	<input type="checkbox"/> free working <input type="checkbox"/> restricted working	
		disassembling force	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
		holding ease	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
	bonding	fixing state	<input type="checkbox"/> no fixing <input type="checkbox"/> temporary fixing <input type="checkbox"/> continual fixing	
		working space size	<input type="checkbox"/> free working <input type="checkbox"/> restricted working	
		disassembling force	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
		holding ease	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
	fastening	fixing state	<input type="checkbox"/> no fixing <input type="checkbox"/> temporary fixing <input type="checkbox"/> continual fixing	
		working space size	<input type="checkbox"/> free working <input type="checkbox"/> restricted working	
		disassembling force	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
		holding ease	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
	snap-fit	fixing state	<input type="checkbox"/> no fixing <input type="checkbox"/> temporary fixing <input type="checkbox"/> continual fixing	
		working space size	<input type="checkbox"/> free working <input type="checkbox"/> restricted working	
		disassembling force	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
		holding ease	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
	welding	fixing state	<input type="checkbox"/> no fixing <input type="checkbox"/> temporary fixing <input type="checkbox"/> continual fixing	
		working space size	<input type="checkbox"/> free working <input type="checkbox"/> restricted working	
		disassembling force	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
		holding ease	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
	fitting	fixing state	<input type="checkbox"/> no fixing <input type="checkbox"/> temporary fixing <input type="checkbox"/> continual fixing	
		working space size	<input type="checkbox"/> free working <input type="checkbox"/> restricted working	
		disassembling force	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
		holding ease	<input type="checkbox"/> high <input type="checkbox"/> middle <input type="checkbox"/> low	
disassembly structural attribute	component structure	pre-disjoint component number	<input type="checkbox"/> less than average <input type="checkbox"/> average <input type="checkbox"/> more than average	
		disposition data	<input type="checkbox"/> direct disassembly structure <input type="checkbox"/> complex disassembly structure <input type="checkbox"/> sequential disassembly structure	
	coupling structure	coupling element number	<input type="checkbox"/> 1 <input type="checkbox"/> 2-3 <input type="checkbox"/> more than 3	
		connected component number	<input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> less than 3	
		coupling point number	<input type="checkbox"/> less than 4 <input type="checkbox"/> 5-6 <input type="checkbox"/> more than 6	